

AMENDMENTS TO THE CLAIMS

The following is a complete listing of the claims indicating the current status of each claim and including amendments currently entered as highlighted.

1. (Currently Amended) A linear motor of the moving coil type including:

a stationary magnets array;

a coils assembly movable along a mechanical guide and facing said magnet array;

a sensor for sensing the position of said coils assembly relative to said magnets;

a motion controller with power amplifier that accepts position signals from said sensor and generates currents for the energizing the coils assembly;

at least three stationary continuous conductive rails parallel said guide and connected to said power amplifier; and

at least three brush contacts that are mechanically attached and electrically connected to said coils assembly and which are sliding along said rails as the coils assembly moves, each of said brush contacts maintaining unbroken electrical contact with a corresponding one of said conductive rails during motion of said coils assembly;

Said wherein said coils assembly is powered by said motion controller and amplifier via said brush contacts to generate motion that is sensed by said sensor;

2. (Currently Amended) A linear motor as in claim 1, wherein said ~~position and motion~~ sensor is of ~~the a cable-cable-less~~ type.